To the Joint Commission on Scientific and Technical

Cooperation: USA-USSR

Washington, D. C. October 30, 1974

REPORT

The Joint USA-USSR Working Group on Scientific and Technical Cooperation in Forestry transmits to the USA-USSR Joint Commission the Minutes of the Meeting between the leader of the USSR Delegation - Mr. G. I. Vorobyov, Chairman of the State Forestry Committee, USSR Council of Ministers, and of the leader of the USA Delegation - Mr. J. R. McGuire, Chief, Forest Service, U. S. Department of Agriculture -- as well as Minutes of the Second Meeting of the USA-USSR Working Group with appropriate appendices.

The Delegations request the Joint Commission to approve this program so that further scientific and technical cooperation may go forward as rapidly as possible.

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J. R. McGuire

Chief, Forest Service

U. S. Department of Agriculture

Chairman, State Forestry

Committée

USSR Council of Ministers

USDA Waiver Letter In ERU File

of the meeting of the Chairman of the State Forestry Committee, USSR Council of Ministers and the Leader of the U.S. Forestry Delegation on Scientific and Technical cooperation in Forestry

During the period of October 18 to October 30, 1974, talks between the delegations of the State Forestry Committee, USSR Council of Ministers and the USA headed by the Forest Service, Department of Agriculture, on Scientific and Technical Cooperation in Forestry were held in Washington, D.C.

The Participants were:

on the American side:

J. R. McGuire Chief, Forest Service, U.S. Department of Agriculture

M. B. Dickerman Deputy Chief for Research

Forest Service

R. W. Brandt Director of International Forestry Forest Service

L. Biddison Assistant Regional Forester

Division of Fire and Air Management

Forest Service

E. Ellwood Dean, School of Forest Resources

North Carolina State University

O. Traczewitz Director of Woodlands, International

Paper Company

on the Soviet side:

G. Vorobyov Chairman, State Forestry Committee

USSR Council of Ministers

N. Moisseyev Chief, Department of Science, Introduction of Advanced Methods

and Foreign Relations

P. I. Moroz

Chief of the All Union Forestry Planning Association

E. S. Artsybashev

Chief of the Forestry Fire Branch of the Leningrad Scientific-Research Institute on Forestry

K. T. Gaftanyuk

Chief of the L'vov Forestry Administration

N. N. Larionova

Senior Engineer, Foreign Relations Department, USSR State Forest Economy

During the talks the delegations confirmed interest in subject areas discussed previously, and outlined possible new approaches to Scientific and Technical Cooperation in Forestry and expressed satisfaction with the results of cooperative work performed since the first meeting in 1973.

The plan for Scientific and fechnical Cooperation for 1974-79 continues to be directed toward solving the following main problems of mutual interest:

- I. Effective methods and means of detection, prevention, and control of forest fires;
- II. Integrated control of forest insects and diseases;
- III. Classification of forest biogeocenosis and determination of their biological productivity potential;
- IV. Development of improved technological processes of forest harvesting;
- V. Reforestation and afforestation.

The delegations noted that all listed subjects are directly connected with the environment.

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the work plan of the joint scientific-research of the USSR and the USA in the field of forestry for 1974-1979, specified the topics of scientific-technical cooperation, and also approved the minutes of the second meeting of the working group (with appendices including the work plan) and specific research methods for 1975 on the topic, "Techniques and Tactics of Extinguishing Forest Fires with Chemical Substances on the Ground and from the Air," the implementation of which is provided by the Soviet-American plan for scientific-technical cooperation for 1974-1979.

During the visit in the USA, the Russian Delegation became acquainted with activities of the Forest Insect and Disease Laboratory and Yale University at New Haven, Connecticut; the North Central Forest Experiment Station and University of Minnesota in Minneapolis; the Forestry Sciences Laboratory and Oregon State University at Corvallis, Oregon; and the Forest Fire Laboratories at Missoula, Montana. The USSR foresters also visited the Western Forestry Center at Portland, Oregon.

Both parties note with satisfaction that their meeting proceeded in an amicable and business-like atmosphere, and will contribute to a strengthening of cooperation in the field of forestry. The parties agreed that further exchanges can be carried forth on a scientist-to-scientist basis in line with the above program areas.

These minutes have been drawn up in Washington, D.C., on October 30, 1974, in Russian and in English, and these two texts are equally valid.

CHIEF, FOREST SERVICE

U.S. DEPARTMENT OF

AGRICULTURE

CHAIRMAN OF THE STATE FORESTRY COMMITTEE OF THE USSR COUNCIL

OF MINISTERS

MINUTES

of the Second Meeting of the Joint American-Soviet Working Group of Experts on Scientific and Technical Cooperation in the Field of Forestry

In accordance with the Agreement between the Governments of the USA and USSR for cooperation in the fields of Science and Technology, signed on May 24, 1972, and with the decision of the First Session of the American-Soviet Joint Commission on Scientific and Technical Cooperation, the second meeting of the Joint American-Soviet Working Group of experts on Scientific and Technical Cooperation in the Field of Forestry was held.

The meeting took place in Washington, D. C., from October 18 to October 30, 1974.

The Working Group of the Soviet Delegation was headed by N. Moisseyev, Chief of the Department of Research, Introduction of Progressive Innovation and Foreign Relations, State Forestry Committee, USSR Council of Ministers.

The Working Group of the American Delegation was headed by

M. B. Dickerman, Deputy Chief for Research, Forest Service, U. S. Department of Agriculture.

Scientific-technical cooperation in the field of forestry for the period between the First and Second meetings was summed up at the meeting of the working group; measures for implementing topics of scientific-technical cooperation, planned at the First meeting, were examined; work plans for scientific-research for 1974-1979 were prepared and approved; the time and place for holding the Third meeting of the working group was agreed.

Specifically, the following agreements were reached:

- 1. The working group evaluated positively the results of scientifictechnical cooperation in the field of forestry during the period between the first and second meetings of the working group.
- 2. In the course of implementing Soviet-American cooperation, the sides exchanged scientific-technical information on forestry questions of interest to them.
- 3. The working group acknowledges the necessity of developing scientific-technical cooperation in the directions and manner adopted at the previous meeting in September 1973 in Moscow (according to Appendix 1 of the minutes of the first meeting).
- 4. The working group further developed and generally approved a work plan (Appendix 1) of joint scientific-research between the USSR and the USA in the field of forestry for 1975-1979, and approved research methods for 1975 on the topic: "Techniques and Tactics of Extinguishing Forest Fires with Chemical Substances on the Ground and from the Air." (Appendix 2).
- 5. The working group acknowledged the usefulness of the topics adopted at the first meeting for further mutually beneficial cooperation in the field of forestry. (Appendix 3).
- 6. An understanding was reached on carrying out a periodic mutual exchange of groups of experts during 1975 for the purpose of reviewing the implementation of joint work, for discussion of the results of research carried out, and for exchange of mutual information. Specific dates and the places for conducting mutual visits will be agreed during the course of work.

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- 7. The working group recognizes that the mutual exchange of information materials must be executed in compliance with the legislation of each of the sides. Any information acquired in the course of scientific and technical cooperation may be transmitted to a third party upon agreement between the two contracting sides.
- 8. Members of the working group pointed out, with pleasure, the mutual understanding and business atmosphere of the meeting.
- 9. The working group agreed that further exchanges can be carried forth on a scientist-to-scientist basis in line with the above program areas if the proposed program is approved by the Joint Commission.

The Minutes are recorded and signed in Washington, D. C., on October 30, 1974, two copies, in English and Russian. Both texts are equally valid.

M. B. DICKERMAN

CHAIRMAN OF THE AMERICAN PART OF THE WORKING GROUP IN THE FIELD OF FORESTRY N. MOISSEYEV

CHAIRMAN OF THE SOVIET PART OF THE WORKING GROUP IN THE

FIELD OF FORESTRY

THE PROBLEMS SUBJECTED TO JOINT WORK IN FURTHER

EXPANSION OF COOPERATION

- 1. Genetics. Selection, introduction, and forest seed production.
- Establishment of high-productive and early-maturing plantations, including utilization of effluents for the purposes of irrigation.
- 3. Development of methods of forest inventory and forest organization with the use of measurement techniques and air survey (aerial photography).
- 4. Economics and organization of multipurpose forestry.
- 5. Interrelationships of the forest and the environment.
- 6. Dutch elm disease in shelterbelts and methods of its control.
- 7. Establishment and maintenance of forest stands optimal structure.
- 8. Biological and chemical methods of control Fomes annosus.
- 9. Training of scientific personnel by means of postgraduate (student-ship) and by skill improvement of managing personnel.

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in forest management stages.

(a) Development of program and methods of joint research.

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Methods of appraising environ- mental impact of shelterwood and selection cuttings.	1) Analysis of completed research and scientific-technical developments on principal cuttings.	(a) Development of technology and means of mechanization of shelterwood and selection cuttings, with use of machinery and equipment (for mountain regions and flat lands).	Development of technology and means of mechanization of partial cuttings.	Study of changes in the forest environment as a result of cutting and mechanical logging.	Technology of clearcutting and clearing the site.	Development of improved technological processes and means of mechanization of forest harvesting.	2
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Development of research program.	Exchange of information on reforestation activities on drained excessive water-logged soils.	Exchange of information on establishment of coniferous plantations on cutovers in conditions of intensive alternation of species.	Mechanization of reforesta- tion activities.	Continuation of tests and working out recommendations on complex of machinery for growing of seedlings in conditions of controlled environment.	Testing of machinery complex including recently ones developed in conditions of controlled environment.	Development of necessary machinery for large scale mechanization of seedlings growing in greenhouses.	
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Experiments on mechanization of activities on fresh cutovers in conditions of quick alternation of species.	VNIILM	Laboratory of forest field shelter- belts, Experimental Center, Region of Rocky Mountains, Bottineau (N. Dakota)	1975	Exchange of scientifi
Experiments on establishment of plantations on water-logged soils with the use of briquettes (soil preparation, planting).	LenNIILKM	=	1975	Exchange of scientifi
Specification of research program.	VNIILM LenNIILKH	## ## ## ## ## ## ## ## ## ## ## ## ##	, 1975	Reciprocal business trips of experts.
Field experiments with reforestation methods based on large-scale mechanization and application of chemicals under conditions of species alternation.	VNIILM	a	1976	Exchange of scientific
Laying out of experiments using briquettes on establishment of forest cultures and plantations on drained lands.	LenNIILKH	=	1976	Exchange of scientifice papers.

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2	Studies of pine and spruce cultures on quickly over-growing cutovers under large-scale mechanization of operations with the use of transplants.	Large-scale mechani- zation of activities of establishment of forest plantation with briquettes.	Studies on large-scale mechanization and application of chemicals in establishment of forest plantations on cut-land under conditions of species alteration.	Silvicultural and economic Lappraisal of methods of reforestation and establishment of plantation type forest stands by using planting stock with enclosed root system.	Analysis of prospective methods of mechanization and application of chemicals for cutover reforestation with the use of transplants and briquettes.
L.S	VNIILM	LenNIILKH	VNIILM	LenNIILKH 1ds	VNIILM LenNIILKH
4 5	Laboratory of forest field shelter- belts, Experimental Center, Region of Rocky Mountains, Bottineau (N. Dakota)	2	3	=	" 1978
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CHAIRMAN OF THE AMERICAN PAR OF THE WORKING GROUP IN THE FIELD OF FORESTRY Approved For Release 2000/09/06 AMERICAN PART

d)1-Summary and recommendations

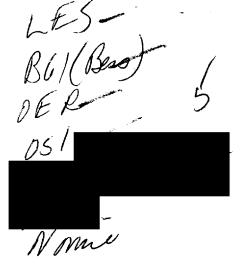
OF THE WORKING GROUP IN THE FIELD OF FORESTRY CHAIRMAN OF THE SOVIET PART

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φ Exchange of reports of research results of and recommendation.

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To the Joint Commission on

Scientific and Technical

Cooperation: USA-USSR

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Washington, D. C. October 30, 1974

REPORT

The Joint USA-USSR Working Group on Scientific and Technical Cooperation in Forestry transmits to the USA-USSR Joint Commission the Minutes of the Meeting between the leader of the USSR Delegation - Mr. G. I. Vorobyov, Chairman of the State Forestry Committee, USSR Council of Ministers, and of the leader of the USA Delegation - Mr. J. R. McGuire, Chief, Forest Service, U. S. Department of Agriculture--as well as Minutes of the Second Meeting of the USA-USSR Working Group with appropriate appendices.

The Delegations request the Joint Commission to approve this program so that further scientific and technical cooperation may go forward as rapidly as possible.

J. R. McGuire

Chief, Forest Service

U. S. Department of Agriculture

G. T. Verebyey

Chairman, State Forestry

Committee

USSR Council of Ministers

1 - To Really

of the meeting of the Chairman of the State Forestry Committee, USSR Council of Ministers and the Leader of the U.S. Forestry Delegation on Scientific and Technical cooperation in Forestry

During the period of October 18 to October 30, 1974, talks between the delegations of the State Forestry Committee, USSR Council of Ministers and the USA headed by the Forest Service, Department of Agriculture, on Scientific and Technical Cooperation in Forestry were held in Washington, D.C.

The Participants were:

on the American side:

J. R. McGuire

Chief, Forest Service, U.S. Department of Agriculture

M. B. Dickerman

Deputy Chief for Research Forest Service

R. W. Brande

Director of Pargrational Forestry Forest Spryice

L. Bidd son

Assistant Regional Forester Division of Fire and Air Management Forest Service

E. Ellwood

Dean, School of Forest Resources North Carolina State University

O. Traczewitz

Director of Woodlands, International Paper Company

on the Soviet side:

G. Vorobyov

Chairman, State Forestry Committee USSR Council of Ministers

N. Moisseyev

Chief, Department of Science, Introduction of Advanced Methods and Foreign Relations

P. I. Moroz

Chief of the All Union Forestry Planning Association

E. S. Artsybashev

Chief of the Forestry Fire Branch of the Leningrad Scientific-Research Institute on Forestry

K. T. Gaftanyuk

Chief of the L'vov Forestry

Administration

N. N. Larionova

Senior Engineer, Foreign Relations Department, USSR State Forest Economy

During the talks the delegations confirmed interest in subject areas discussed previously, and outlined possible new approaches to Scientific and Technical Cooperation in Forestry and expressed satisfaction with the results of cooperative work performed since the first meeting in 1973.

The plan for Scientific and rechnical Cooperation for 1974-79 continues to be directed toward solving the following main problems of mutual interest:

- I. Effective methods and means of detection, prevention, and control of forest fires;
- II. Integrated control of forest insects and diseases;
- III. Classification of forest biogeocenosis and determination of their biological productivity potential;
- IV. Development of improved technological processes of forest harvesting;
- V. Reforestation and afforestation.

The delegations noted that all listed subjects are directly connected with the environment.

the work plan of the joint scientific-research of the USSR and the USA in the field of forestry for 1974-1979, specified the topics of scientific-technical cooperation, and also approved the minutes of the second meeting of the working group (with appendices including the work plan) and specific research methods for 1975 on the topic, "Techniques and Tactics of Extinguishing Forest Fires with Chemical Substances on the Ground and from the Air," the implementation of which is provided by the Soviet-American plan for scientific-technical cooperation for 1974-1979.

During the visit in the USA, the Russian Delegation became acquainted with activities of the Forest Insect and Disease Laboratory and Yale University at New Haven, Connecticut; the North Central Forest Experiment Station and University of Minnesota in Minneapolis; the Forestry Sciences Laboratory and Oregon State University at Corvallis, Oregon; and the Forest Fire Laboratories at Missoula, Montana. The USSR foresters also visited the Western Forestry Center at Portland, Oregon.

Both parties note with satisfaction that their meeting proceeded in an amicable and business-like atmosphere, and will contribute to a strengthening of cooperation in the field of forestry. The parties agreed that further exchanges can be carried forth on a scientist-to-scientist basis in line with the above program areas.

These minutes have been drawn up in Washington, D.C., on October 30, 1974, in Russian and in English, and these two texts are equally valid.

CHIEF, FOREST SERVICE

U.S. DEPARTMENT OF

AGRICULTURE

CHAIRMAN OF THE STATE FORESTRY

OF MINISTERS

Approved For Release 2000/09/06 : CIA-RDP79-00798A000400020001-1 M I N U T E S

of the Second Meeting of the Joint American-Soviet Working Group of Experts on Scientific and

Technical Cooperation in the Field of Forestry

In accordance with the Agreement between the Governments of the USA and USSR for cooperation in the fields of Science and Technology, signed on May 24, 1972, and with the decision of the First Session of the American-Soviet Joint Commission on Scientific and Technical Cooperation, the second meeting of the Joint American-Soviet Working Group of experts

The meeting took place in Washington, D. C., from October 18 to October 30, 1974.

on Scientific and Technical Cooperation in the Field of Forestry, was

held.

The Working Group of the Soviet Delegation was headed by N. Moisseyev, Chief of the Department of Research, Introduction of Progressive Innovation and Foreign Relations, State Forestry Committee, USSR Council of Ministers.

The Working Group of the American Delegation was headed by

M. B. Dickerman, Deputy Chief for Research, Forest Service, U. S. Department of Agriculture.

Scientific-technical cooperation in the field of forestry for the period between the First and Second meetings was summed up at the meeting of the working group; measures for implementing topics of scientific-technical cooperation, planned at the First meeting, were examined; work plans for scientific-research for 1974-1979 were prepared and approved; the time and place for holding the Third meeting of the working group was agreed.

Specifically, the following agreements were reached:

- 1. The working group evaluated positively the results of scientifictechnical cooperation in the field of forestry during the period between the first and second meetings of the working group.
- 2. In the course of implementing Soviet-American cooperation, the sides exchanged scientific-technical information on forestry questions of interest to them.
- 3. The working group acknowledges the necessity of developing scientific-technical cooperation in the directions and manner adopted at the previous meeting in September 1973 in Moscow (according to Appendix 1 of the minutes of the first meeting).
- 4. The working group further developed and generally approved a work plan (Appendix 1) of joint scientific-research between the USSR and the USA in the field of forestry for 1975-1979, and approved research methods for 1975 on the topic: "Techniques and Tactics of Extinguishing Forest Fires with Chemical Substances on the Ground and from the Air." (Appendix 2)
- 5. The working group acknowledged the usefulness of the topics adopted at the first meeting for further mutually beneficial cooperation in the field of forestry. (Appendix 3).
- 6. An understanding was reached on carrying out a periodic mutual exchange of groups of experts during 1975 for the purpose of reviewing the implementation of joint work, for discussion of the results of research carried out, and for exchange of mutual information. Specific dates and the places for conducting mutual visits will be agreed during the course of work.

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- 7. The working group recognizes that the mutual exchange of information materials must be executed in compliance with the legislation of each of the sides. Any information acquired in the course of scientific and technical cooperation may be transmitted to a third party upon agreement between the two contracting sides.
- 8. Members of the working group pointed out, with pleasure, the mutual understanding and business atmosphere of the meeting.
- 9. The working group agreed that further exchanges can be carried forth on a scientist-to-scientist basis in line with the above program areas if the proposed program is approved by the Joint Commission.

The Minutes are recorded and signed in Washington, D. C., on October 30, 1974, two copies, in English and Russian. Both texts are equally valid.

M. B. DICKERMAN

CHAIRMAN OF THE AMERICAN PART OF THE WORKING GROUP IN THE

FIELD OF FORESTRY

N. MOISSEYEV

CHAIRMAN OF THE SOVIET PART OF THE WORKING GROUP IN THE

FIELD OF FORESTRY

THE PROBLEMS SUBJECTED TO JOINT WORK IN FURTHER

EXPANSION OF COOPERATION

- 1. Genetics. Selection, introduction, and forest seed production.
- 2. Establishment of high-productive and early-maturing plantations, including utilization of effluents for the purposes of irrigation.
- 3. Development of methods of forest inventory and forest organization with the use of measurement techniques and air survey (aerial photography).
- 4. Economics and organization of multipurpose forestry.
- 5. Interrelationships of the forest and the environment.
- 6. Dutch elm disease in shelterbelts and methods of its control.
- 7. Establishment and maintenance of forest stands optimal structure.
- 8. Biological and chemical methods of control Fomes annosus.
- Training of scientific personnel by means of postgraduate (studentship) and by skill improvement of managing personnel.

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USA JOINT RESEARCH F FORESTRY 1979	zations	USA	4	USDA Forest Service	Forest Fire Laboratory, Missoula (Montana), San-Dimas Equipment Development Center.	:	USDA Forest Service Washington, D. C.
WORKING PLAN FOR USSR AND USA JOINT IN THE FIELD OF FORESTRY FOR 1974-1979	Participant Organizations	USSR	3	State Forestry Committee, USSR Council of Ministers	LenNIIIKH Central base for aircraft forests protection	· .	LenNIILKH Central base for aircraft forest protection.
COURE FOREST SERVICE FOREST OF AGRICULTURE	Decomination of subjects and stages of research activities .		7	Development of effective methods and means of detection, prevention, and forest fire controls.	Technique and tactics of detection, prevention, and control of fedest fires, particularly with the use of aircraft and chemicals.	(Stics of forest fire control (Stinguishing) with the application of chemicals on the ground and from air.	0(1) Development and Coordination 00the exchange program and methods 00conducting experiments.

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. 4	Forest Fire Lab- oratory, Missoula (Montana). San-Dimas Equipment Center.	Forest Fire Lab- oratory, Missoula (Montana). San-Dimas Equipment Center.	USDA Forest Service Washington, D. C.	Forest Fire Lab- oratory, Missoula (Montana)		Forest Fire Lab- oratory, Riverside California.	USDA, Forest Service 1974	Forest Fire Lab- oratory, Missoula (Montana)	San-Dimas Equipment Development Center
3	LenNIILKH Central base for aircraft forest protection.	LenNIILKH Central base for aircraft forest protection.	LenNILLKH	LenNILKH		LenNILKH	LenNILLKH	DalNIILKH	LenNIILKH VNIIMLesKHoz DalNIILKH
2	the most effective chemicals of the most effective chemicals on the and ground and development of recommendation for their use.	(3) Evaluation of methods of factor fire control (extinguishing) when chemicals from the air and development of recommendation for their use.	20 Development and operation of a completed systems for forest fire purection.	39 Artificial inducing of preciption and prevention of lightning in Forest fire control.	4 Additional items of interest:	6a) Detection of forest fires 6 with the use of infrared 6 equipment.	Wb) Forest fire hazard rating 000 by weather elements.	OD Development of mathematical model for forest fire Behavior.	d) Ground equipment for forest fire control.

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7	USDA, Forest Service Washington, D.C.	Laboratory of Forest Insects and Diseases - Connecticut and Oregon.	=		=	=		=
ຕ	State Forestry Committee, USSR Council of Mini- sters.	VNI ILM Ukrni ILKH	VNIIIM Ukrniilkh •	=	:	r.	z	VNIIIM
2	ntegrated control of forest pests ind diseases.	. Integrated control of Gypsy moth (Porthetria dispar).	(a) Methods of Gypsy moth assess- ment and forecasting of popu- lations.	- Assessment and forecasting methods for Gypsy moth.	- Analysis of Gypsy moth outbreaks and modificating factors in dynamics of its population.	- Prediction of Gypsy moth outbreaks and tests under field conditions.	(b) Methods and techniques of Gypsy moth control with the use of attractants.	- Determination of trends in application of Gypsy moth attractants and development of program and methods of research.

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4	Laboratory of Forest Insects and Diseases - Connecticut and Oregon.		Pacific Northwest Forest Experiment Station, Oregon.
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6	- use of attractants in detection of Gypsy moth.	 development of methods and technique of attractant application in control of Gypsy moth. 	Improvement of microbiological and chemical methods for control of forest insects.

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. 4	USDA; Forest Service•	Forest Laboratory, Intermountain For- est Experiment Station, Missoula, Montana,	Southeastern Forest Exeperiment Station, Asheville, N.C.	Asheville, N.C.		
೯	USSR Academy of Sciences, State Forestry Comm.	Forest Laboratory of USSR Academy of Sciences; VNIIIM.	Forest Laboratory of USSR Academy of Sciences, VNIILM, LenNIILKH.	VNIIIM, LenNIILKH.		
2	assification of forest biogeocoe- uses and determination of their coductivity.	Development and specification of classification of forest biogeocoenoses.	Determination of potential productivity of forests (bearing in mind the multiple use of forests).	Influence of forestry activities on dynamics of forest biogeocoenoses, including use of chemicals in forest management stages.	(a) Development of program and methods of joint research.	

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3	State Forestry Committee, USSR Council of Mini- sters.	VNIIIM, Leningrad Forestry Research Institute.	All-Union Research Institute for Forestry and Meehanization.	VNIIIM, Tbilice Institute of Forestr Sochi Forest Experiment Station.	E	E	=
. Ap	development of improved technological every session means of mechanization for forest harvesting.	Technology of clearcutting and of clearing the site.	Study of changes in the forest convironment as a result of cutting and mechanical logging.	9. Development of technology and means of mechanization of P partial cuttings. U	decomposed to technology and means of mechanization of shelterwood and selection cuttings, with use of machinery and equipment (for mountain regions and flat lands).	(A) Analysis of completed research and scientific-technical developments on principal cuttings.	L(a.2) Methods of appraising environmental impact of shelterwood and selection cuttings.

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4	Forest Service, Research, Washington, D.C.	Forest Service, Research, Washington, D.C.	=	=	Scientific For- estry Laboratory, Intermountain Experimental Forest Station, (Idaho).
3	VNIILM , Tbilice Institute of Forestry, Sochi Forest Experiment Station.	VNIIIM	ε • .	=	=
2	Development of forest management and mechanical requirements for machinery used for principal cuttings under various forest conditions.	Development of technology and means of mechanization for thinning.	Development of program forests in flat lands. Analysis of completed research and scientific and technical develorments on the problem of thinning.	Development of forest manage- ment and methods for joint work technical and requirements for machinery used for thinnings under various forest conditions.	Economic evaluation of forest productivity as applied to classification.
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destation and afforestation obstation and afforestation obstation	1d Introduction, selection Ly breeding and seed production a of tree species.	<pre>a a) Working out the joint Dogram and methods of research.</pre>	60 b) Identification and appli- 90 cation of genetic and 90 selection methods for in- 91 creasing efficiency.	c) Studies of groof various hybtest plots with biometric, phyelectrophysiol biochemical me Development of reproduction most valuable	d) Coordination of principles and methods of research conducted on various species.
	afforestation State Forestry USDA 1974 1979 Committee Forest Service Vaskhnil	dafforestation State Forestry USDA 1974 1979 Committee Forest Service Vaskhnil Research Depart- 1974 1979 seed production Vniilm ment, Forest Service Stock. Jc.	d afforestation State Forestry USDA 1974 1979 Committee Forest Service Vaskhnil Research Depart- 1974 1979 Exchange of it seed production Vnialmi Research Depart- 1974 1979 Exchange of scies. Ukrnillkha Service Service Service Service and methods of methods of the programs.	dafforestation State Forestry USDA 1974 1979 Committee Forest Service Vasknil Research Depart- 1974 1979 Exchange of Seed production Vnialmi Research Depart- 1974 1979 Exchange of Service Varialmi Research Depart- 1974 1979 Exchange of Service Vashington, D.C. and methods of " 1975 1976 Exchange of Service Variation and appli- " 1975 1976 Exchange of Service Variation and appli- " 1975 1976 Exchange of Service Service Variation and appli- " 1975 Service Service Of Selection and Service Service Refliciency.	d afforestation

7	Exchange of repodes on research resulus.	Exchange of annual reports on research results of specified program and methods. Reciprocal busineds trips of experts.	Exchange of reports on research results on subject and recommendations of seed growing pro-tective referestances ion discussion du discussion du results of subjects study making decipion on the prospects of further cooperatife.
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†	Research Depart- ment, Forest Service Washington, D.C.	=	=
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J	Studies on consequences of using seeds of various species, ecotypes and forms with the aim of selecting best prospects and determining targets for joint experiments on seed production,	Parallel experiments, based on application of similar vegetative stock or similar research methods.	Summing up results of joint research.
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Establishment of shelterbelts in various natural conditions and ptheir tending.	Studies on reclamation, By preparation, and nutrition of soils with application of ameliorants or without them.	Exchange of information on the state of subject. Working out of research program.	Specification of research program.) Testing and technology of herbicides in control of weedy vegetations.	Exchange of information on the state of subject. Working out of research program.	Specification of research program.

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3	VNIALMI Ukrni ilkh	=	=	=	=	= .	=
2	Effects of shelterbelts on agriculture and wildlife.	Exchange of information on the state of subject. Working out research program.	Specification of research program.	Specific mixtures and spacing within and between shelterbelts on nonirrigated and irrigated lands.	Exchange of information on the state of subject, Working out research program,	Specification of research program.	Summary and recommendations.
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	3.d Technology and large- scale mechanization of p reforestation activities. J	a) Production of planting b stock with enclosed c root system.	Exchange of information on the state of subject on production of planting stock with enclosed root system. Working out of research program.	Specification of research programs. Laying out experiments on production of planting stock with enclosed root system from seedlings by various methods. (Placement of seedling roots into subpressed substrate, briquettes and containers.) Mechanization of operations.	Studies on determination of dates and conditions of planting stock growing with enclosed root system from seedlings in con- nection with briquette sizes.
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2	Analysis of existing mechanization on production of planting stock with enclosed root system and working out agriculture requirements for new machinery.	Experiments on growing seedlings with enclosed root system by sowing seeds into briquettes and containers. Mechanization of operations.	Prospective production methods of planting stock with enclosed root system based on results achieved.	b) Mechanization and automation of operation on growing of planting stock in conditions of controlled environment.	Exchange of information on mechaniariation of operations for growing planting stock in plastic greenhouses. Working out of research programs.	Specification of research program. Development of machinery for growing of seedlings in conditions of controlled environment.	Test of existing machinery and equipment in conditions of controlled environment.

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2	Development of necessary machinery for large scale mechanization of seedlings growing in greenhouses.	Testing of machinery complex including recently ones developed in conditions of controlled environment.	Continuation of tests and working out recommendations on complex of machinery for growing of seedlings in conditions of controlled environment,	Mechanization of reforestartion activities.	Exchange of information on establishment of coniferous plantations on cutovers in conditions of intensive alternation of species.	Exchange of information on reforestation activities on drained excessive waterlogged soils.	Development of research program.
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Experiments on mechanization of activities on fresh cutovers in conditions of quick alternation of species.	Experiments on establishment of plantations on water-logged soils with the use of briquettes (soil preparation, planting).	Specification of research program.	Field experiments with reforestation methods based on large-scale mechanization and application of chemicals under conditions of species alternation.	Laying out of experiments using briquettes on establishment of forest cultures and plantations on drained lands.

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Studies of pine and spruce cultures on quickly over-growing cutovers under large-scale mechanization of operations with the use of transplants.	Large-scale mechani- zation of activities of establishment of forest plantation with. briquettes.	Studies on large-scale mechanization and application of chemicals in establishment of forest plantations on cut-land under conditions of species alteration.	Silvicultural and economic appraisal of methods of reforestation and establishment of plantation type forest staby using planting stock with closed root system.	Analysis of prospective methods of mechanization and application of chemicals for cutcver reforestation with the use of transplants and briquettes.
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